

- encoding a polypeptide having alpha galactosidase activity and*
- (a) a polynucleotide having at least a 70% identity to a polynucleotide encoding an enzyme comprising the amino acid sequence set forth in SEQ ID NO: 4 and having alpha galactosidase activity;
- B1 Ent*
- (b) a polynucleotide that is complementary to [the] a polynucleotide of (a); and
- (c) a polynucleotide comprising at least [15] 30 bases of [the] a polynucleotide of (a) or (b).
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2. (Amended) The polynucleotide of Claim 1, wherein the polynucleotide is DNA.
3. (Amended) The polynucleotide of Claim 1, wherein the polynucleotide is RNA.
4. (Amended) The polynucleotide of Claim 2, which encodes an enzyme comprising amino acids 1 to [364] 346 of SEQ ID NO:4.
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- B2 Sub D2*
5. (Amended) An isolated polynucleotide comprising a member selected from the group consisting of:
- encoding a polypeptide having*
- (a) a polynucleotide having at least a [70%] 90% identity to a polynucleotide encoding an enzyme [encoded by the DNA contained in ATCC Deposit No. \_\_\_\_\_] having a sequence as set forth in SEQ ID NO:4 and having alpha galactosidase activity [, wherein said enzyme is AEDII12RA--gal-18GC];
- (b) a polynucleotide complementary to [the] a polynucleotide of (a); and
- (c) a polynucleotide comprising at least [15] 30 bases of [the] a polynucleotide of (a) and (b).
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6. (Reiterated) A vector comprising the DNA of Claim 2.
7. (Reiterated) A host cell comprising the vector of Claim 6.
8. (Reiterated) A process for producing a polypeptide comprising expressing from the host cell of Claim 7 a polypeptide encoded by said DNA.

*and isolating said polypeptides*

9. (Reiterated) A process for producing a cell comprising transforming or transfecting the cell with the vector of Claim 6 such that the cell expresses the polypeptide encoded by the DNA contained in the vector.

Sub D4  
B3  
13. (Amended) The polynucleotide of claim 1, wherein the polynucleotide has at least 70% identity to a polynucleotide encoding an enzyme comprising the amino acid sequence set forth in SEQ ID NO:4 (and encodes a protein having enzymatic activity).

Sub C1  
14. (Amended) The polynucleotide of claim 13, wherein the polynucleotide has at least 90% identity under stringent conditions to a polynucleotide encoding an enzyme comprising the amino acid sequence set forth in SEQ ID NO:4.

15. (Canceled) The polynucleotide of claim 6 wherein the polynucleotide has at least 70% identity to a polynucleotide encoding AEDII12RA--gal-18GC and encodes a protein having enzymatic activity.

16. (Canceled) The polynucleotide of claim 15 wherein the polynucleotide has at least 90% identity under stringent conditions to a polynucleotide encoding AEDII12RA--gal-18G.

Sub C2  
B4  
17. (Amended) The polynucleotide of claim 2, wherein the DNA is cDNA, genomic [DAN] DNA or synthetic DNA.

18. (Amended) The polynucleotide of claim 2, wherein the DNA is single stranded or double stranded.

Sub C3  
19. (Amended) The polynucleotide of claim 14, wherein the single stranded DNA is a coding sequence [or a non-coding sequence].